Applicant's or agent's file reference

| | REC'D | 2 | 7 | VOV | 2001 |
|---|-------|---|---|-----|------|
| ļ | | | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference HL/FI991802 | FOR FURTHER ACTION | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | | |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--|--|
| International application No. PCT/FI00/00690 | International filing date (day/month 14/08/2000 | /year) Priority date (day/month/year) 24/08/1999 | | |
| International Patent Classification (IPC) or na D21H19/00 | ational classification and IPC | | | |
| Applicant VALMET CORPORATION et al. | | | | |
| This international preliminary exam and is transmitted to the applicant a | | by this International Preliminary Examining Authority | | |
| 2. This REPORT consists of a total of | 5 sheets, including this cover sh | neet. | | |
| been amended and are the bas | | e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT). | | |
| These annexes consist of a total of | 8 sheets. | | | |
| 3. This report contains indications rela | ating to the following items: | | | |
| I Basis of the report | | | | |
| II 🗆 Priority | | | | |
| III Non-establishment of o | pinion with regard to novelty, inv | entive step and industrial applicability | | |
| IV | on | | | |
| | nder Article 35(2) with regard to r ons suporting such statement | novelty, inventive step or industrial applicability; | | |
| VI ☐ Certain documents cite | | | | |
| VII ⊠ Certain defects in the ir | • • | | | |
| VIII □ Certain observations or | n the international application | | | |
| Date of submission of the demand | Date of c | completion of this report | | |
| 21/03/2001 22.11.2001 | | | | |
| Name and mailing address of the international preliminary examining authority: | I Authorize | ed officer | | |
| European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 | Naeslu | nd, P | | |
| Fax: +49 89 2399 - 4465 orm PCT/IPEA/409 (cover sheet) (January 19 | | ne No. +49 89 2399 8614 | | |

International application No. PCT/FI00/00690

| l. | Bas | is | of | the | rer | oort |
|----|-----|----|----|-----|-----|------|
|----|-----|----|----|-----|-----|------|

| 1. | the and | receiving Office in | response to an invitation | al application (Replacement sheets which have been furnished to n under Article 14 are referred to in this report as "originally filed" do not contain amendments (Rules 70.16 and 70.17)): |
|----|------------|---------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 1-6 | | with telefax of | 05/09/2001 |
| | Cla | ims, No.: | | |
| | 1-6 | | with telefax of | 05/09/2001 |
| | Dra | wings, sheets: | | |
| | 1/1 | | as originally filed | |
| | | | | |
| 2. | | | | marked above were available or furnished to this Authority in the was filed, unless otherwise indicated under this item. |
| | The | se elements were a | available or furnished to | this Authority in the following language: , which is: |
| | | the language of a | translation furnished for | the purposes of the international search (under Rule 23.1(b)). |
| | | the language of pu | ublication of the internat | ional application (under Rule 48.3(b)). |
| | | the language of a 55.2 and/or 55.3). | translation furnished for | the purposes of international preliminary examination (under Rule |
| 3. | | | | acid sequence disclosed in the international application, the ied out on the basis of the sequence listing: |
| | | contained in the in | ternational application i | n written form. |
| | | filed together with | the international applica | ation in computer readable form. |
| | | furnished subsequ | ently to this Authority in | written form. |
| | | furnished subsequ | ently to this Authority in | computer readable form. |
| | | | t the subsequently furni pplication as filed has b | shed written sequence listing does not go beyond the disclosure in een furnished. |
| | | The statement tha listing has been fu | | ed in computer readable form is identical to the written sequence |
| 4. | The | amendments have | e resulted in the cancella | ation of: |
| | | the description, | pages: | |
| | | the claims. | Nos.: | |

International application No. PCT/FI00/00690

| | | the drawings, | sheets: | | | | , | | | | |
|----|------|---------------------------------------------|-------------|------------------|-------------|-----------|-----------|-------------|------------|-------------|------------|
| 5. | | This report has been considered to go bey | | | - | | | d not been | made, si | nce they h | ave beer |
| | | (Any replacement shoreport.) | eet contai | ning such | amendme | ents must | be referr | ed to unde | r item 1 a | and annex | ed to this |
| 6. | Add | litional observations, if | necessar | ry: | | | | | | | |
| v. | | soned statement und tions and explanatio | | | | | ty, inven | tive step o | or indust | rial applic | eability; |
| 1. | Stat | ement | | | | | | | | | |
| | Nov | elty (N) | Yes: No: | Claims Claims | 1-6 NONE | | | | | | |
| | Inve | entive step (IS) | Yes: No: | Claims Claims | NONE 1-6 | | | | | | |
| | Indu | strial applicability (IA) | Yes: No: | Claims Claims | 1-6 NONE | | | | | | |

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: JP-A- 05 331793 cited as a Derwent abstract

D2: US-A-4 016 030 D3: US-A-5 163 364 D4: DE-A- 38 15 446 D5: EP-A-0 719 891

1. From documents D1* and D2 (see Fig. 1 with corresponding parts in the application, in particular ref. signs 20 and 22) there are known methods and apparatuses for surface treatment of paper comprising glazing and drying with a Yankee followed by calendering of the web.

Independent claims 1 and 4 therefore only differ in that the calender is of the "shoe or extended-nip" type. No inventive step based on this feature could however be seen. It is well-known in the field to apply shoe or extended-nip calendering units for these type of products. See e.g. D3, claim 1 and Fig. 1. Therefore the skilled man would have incorporated such units as described in D3 in the methods and apparatuses of documents D1 (if not already disclosed) or D2.

Claims 1 and 4 hence lack an inventive step (Art. 33(3) PCT).

The attention is additionally directed to D4 (see col. 1, line 32-38; figure 5) as well as D5 (see col. 1, line 10-line 14; Figure 3, ref. sign 25) both these latter documents describe calendering of webs for the same purpose as according to the present invention. The dependent claims would only appear to relate routine measures by the skilled person in the field.

2. For the assessment of the present claims on the question whether they are **EXAMINATION REPORT - SEPARATE SHEET**

industrially applicable, no particular reasoning would appear necessary to give. The industrial applicability would appear self evident (Art. 33(4) PCT).

*) It would appear expedient that the applicant provides a full-text translation of document D1 (the original JP document) on entry of the national/regional phase such the pertinence of this document can be fully assessed.

Re Item VII

Certain defects in the international application

Documents D1-D5 should be (correctly) acknowledged in the description.

my.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference HL/FI991802 | | of Transmittal of International Search Report 220) as well as, where applicable, item 5 below. |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/FI 00/00690 | 14/08/2000 | 24/08/1999 |
| Applicant | | |
| VALMET CORPORATION et al. | | |
| This International Search Report has beer according to Article 18. A copy is being tra | n prepared by this International Searching Auth Insmitted to the International Bureau. | nority and is transmitted to the applicant |
| This International Search Report consists X It is also accompanied by | of a total of sheets. a copy of each prior art document cited in this | report. |
| 1. Basis of the report | | |
| a. With regard to the language, the interpretation in the language in which it was filed, unlended. | nternational search was carried out on the bas ess otherwise indicated under this item. | sis of the international application in the |
| the international search was Authority (Rule 23.1(b)). | as carried out on the basis of a translation of th | ne international application furnished to this |
| was carried out on the basis of the | sequence listing: | ternational application, the international search |
| | nal application in written form. rnational application in computer readable forn | 2 |
| | this Authority in written form. | 11. |
| | this Authority in computer readble form. | |
| the statement that the sub international application as | sequently furnished written sequence listing do s filed has been furnished. | oes not go beyond the disclosure in the |
| the statement that the info furnished | rmation recorded in computer readable form is | identical to the written sequence listing has been |
| 2. Certain claims were four | nd unsearchable (See Box I). | |
| 3. Unity of invention is lack | ing (see Box II). | |
| 4. With regard to the title , | | |
| X the text is approved as sub | omitted by the applicant. | |
| the text has been establish | ned by this Authority to read as follows: | + |
| | | |
| 5. With regard to the abstract, | itted by the confident | |
| the text is approved as sub- the text has been establish within one month from the | omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep | y as it appears in Box III. The applicant may, ort, submit comments to this Authority. |
| 6. The figure of the drawings to be public | shed with the abstract is Figure No. | 1 |
| as suggested by the applic | ant. | None of the figures. |
| X because the applicant faile | • • | , |
| because this figure better | characterizes the invention. | |

PCT/FI 00/00690

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D21G1/00 D21F5/02. According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) D21F IPC 7 D21G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° 1,3-5,7, Х DATABASE WPI Section Ch, Week 199403 Derwent Publications Ltd., London, GB; Class A14, AN 1994-023408 XP002901429 & JP 05 331793 A (OJI PAPER CO), 14 December 1993 (1993-12-14) /abstract 2,6 Υ ∕US 4 016 030 A (SOBOTA JOHN T) 1,3-5,7, Х 5 April 1977 (1977-04-05) the whole document US 5 163 364 A (DAHL HANS ET AL) Υ 2,6 17 November 1992 (1992-11-17) column 1, line 53 - line 57 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search **16**. 03. 2001 21 November 2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Helena Hemphala Fax: (+31-70) 340-3016

2

PCT/FI 00/00690

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | 1 61/11 00/00090 |
|-------------------------------------------------------------------------------------------------------------|-----------------------|
| Category Citation of document, with indication, where appropriate, of the relevant passages | Indiana |
| | Relevant to claim No. |
| DE 38 15 446 A (KUESTERS EDUARD MASCHF) 16 November 1989 (1989-11-16) column 1, line 32 - line 38; figure 5 | 1-8 |
| EP 0 719 891 A (VALMET CORP) 3 July 1996 (1996-07-03) column 1, line 10 - line 14 | 1-8 |
| | • |
| | |
| | |

ormation on patent family members

PCT/FI 00/00690

| Patent document cited in search report | | Publication date < • | | atent family member(s) | Publication date |
|-------------------------------------------|---|----------------------|----------------------|----------------------------------------------------|------------------------------------------------------|
| JP 5331793 | Α | 14-12-1993 | NONE | | |
| US 4016030 | A | 05-04-1977 | NONE | | |
| US 5163364 | Α | 17-11-1992 | AT DE EP | 76134 T 3920204 A 0370185 A | 15-05-1992 10-05-1990 30-05-1990 |
| DE 3815446 | Α | 16-11-1989 | FI | 892163 A | 07-11-1989 |
| EP 0719891 | Α | 03-07-1996 | US CA FI JP | 5524532 A 2164996 A 956102 A,B, 8246379 A | 11-06-1996 29-06-1996 29-06-1996 24-09-1996 |

From the INTERNATIONAL BUREAU **PCT** NOTIFICATION OF THE RECORDING **OF A CHANGE** FORSSÉN & SALOMAA OY Eerikinkatu 2 (PCT Rule 92bis.1 and FIN-00100 Helsinki Administrative Instructions, Section 422) **FINLANDE** Date of mailing (day/month/year) 29 January 2002 (29.01.02) Applicant's or agent's file reference IMPORTANT NOTIFICATION HL/FI991802 International application No. International filing date (day/month/year) PCT/FI00/00690 14 August 2000 (14.08.00) 1. The following indications appeared on record concerning: the applicant the inventor the agent the common representative State of Nationality State of Residence Name and Address FORSSÉN & SALOMAA OY Yrjönkatu 30 Telephone No. FIN-00100 Helsinki +358 9 615 3500 Finland Facsimile No. +358 9 615 35111 Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the person the name the address the nationality the residence State of Nationality State of Residence Name and Address FORSSÉN & SALOMAA OY Eerikinkatu 2 Telephone No. FIN-00100 Helsinki +358 9 615 3500 Finland Facsimile No. +358 9 615 35111 Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: X the receiving Office the designated Offices concerned the International Searching Authority the elected Offices concerned the International Preliminary Examining Authority other: Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Peter WIMMER 1211 Geneva 20, Switzerland

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

| | From the INTERNATIONAL BUREAU |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| PCT | То: |
| NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) | FORSSÉN & SALOMAA OY Yrjönkatu 30 FIN-00100 Helsinki FINLANDE |
| Date of mailing (day/month/year) 10 April 2001 (10.04.01) | |
| Applicant's or agent's file reference HL/FI991802 | IMPORTANT NOTIFICATION |
| International application No. PCT/FI00/00690 | International filing date (day/month/year) 14 August 2000 (14.08.00) |
| 1. The following indications appeared on record concerning: | |
| X the applicant the inventor | the agent the common representative |
| Name and Address VALMET CORPORATION | State of Nationality State of Residence FI |
| Fabianinkatu 9 A FIN-00130 Helsinki Finland | Telephone No. |
| | Facsimile No. |
| | Teleprinter No. |
| | |
| 2. The International Bureau hereby notifies the applicant that t the person X the name the add | |
| Name and Address | State of Nationality State of Residence |
| METSO PAPER, INC. | FI FI |
| Fabianinkatu 9 A FIN-00130 Helsinki Finland | Telephone No. |
| , rimana | Facsimile No. |
| · · | Teleprinter No. |
| | |
| 3. Further observations, if necessary: | |
| | |
| 4. A copy of this notification has been sent to: | |
| X the receiving Office | X the designated Offices concerned |
| X the International Searching Authority | the elected Offices concerned |
| the International Preliminary Examining Authority | other: |
| | Authorized officer |
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | F. Baechler |
| Facsimile No.: (41-22) 740.14.35 | Telephone No.: (41-22) 338.83.38 |

"ATENT COOPERATION TRL .TY

From the INTERNATIONAL BUREAU

| PCT | To: |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NOTIFICATION OF ELECTION (PCT Rule 61.2) | Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 |
| Date of mailing (day/month/year) 09 May 2001 (09.05.01) | ETATS-UNIS D'AMERIQUE in its capacity as elected Office |
| International application No. PCT/FI00/00690 | Applicant's or agent's file reference HL/Fi991802 |
| International filing date (day/month/year) 14 August 2000 (14.08.00) | Priority date (day/month/year) 24 August 1999 (24.08.99) |
| Applicant KOIVUKUNNAS, Pekka et al | |
| The designated Office is hereby notified of its election ma In the demand filed with the International Prelimina 21 March 200 in a notice effecting later election filed with the International Prelimina | ry Examining Authority on: 01 (21.03.01) |
| 2. The election X was was was not was not made before the expiration of 19 months from the priority Rule 32.2(b). | date or, where Rule 32 applies, within the time limit under |
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer Charlotte ENGER |

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



(PCT Article 18 and Rules 43 and 44)

| | Applicant's or agent's file reference | FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. | | | | |
|---|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|--|--|
| | HL/F1991802 | ACTION (Form PC1/ISA/2. | 20) as well as, where applicable, item 5 below. | | | |
| | International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) | | | |
| | PCT/FI 00/00690 | 14/08/2000 | 24/08/1999 | | | |
| | Applicant | | | | | |
| | | | | | | |
| | VALMET CORPORATION et al. | | · · · · · · · · · · · · · · · · · · · | | | |
| | This International Search Report has been according to Article 18. A copy is being train | prepared by this International Searching Auth | ority and is transmitted to the applicant | | | |
| | | | | | | |
| | This International Search Report consists of X It is also accompanied by a | of a total of <u>3</u> sheets. a copy of each prior art document cited in this i | report. | | | |
| | | | · | | | |
| | 1. Basis of the report | | | | | |
| | | nternational search was carried out on the basi less otherwise indicated under this item. | s of the international application in the | | | |
| | the international search wa Authority (Rule 23.1(b)). | as carried out on the basis of a translation of th | e international application furnished to this | | | |
| | | | ernational application, the international search | | | |
| | was carried out on the basis of the contained in the internation | sequence listing : nal application in written form. | | | | |
| | filed together with the inter | national application in computer readable form | ı. | | | |
| | furnished subsequently to | this Authority in written form. | | | | |
| | furnished subsequently to | this Authority in computer readble form. | | | | |
| | the statement that the subs international application as | sequently furnished written sequence listing do i filed has been furnished. | es not go beyond the disclosure in the | | | |
| | the statement that the infor furnished | rmation recorded in computer readable form is | identical to the written sequence listing has been | | | |
| | 2. Certain claims were foun | d unsearchable (See Box I). | | | | |
| | 3. Unity of invention is lack | ing (see Box II). | | | | |
| | 4. With regard to the title, | | | | | |
| | TX the text is approved as sub | omitted by the applicant. | | | | |
| | the text has been establish | ed by this Authority to read as follows: | | | | |
| | | | | | | |
| | | | | | | |
| | 5. With regard to the abstract, | | | | | |
| | X the text is approved as sub | omitted by the applicant. | | | | |
| | | led, according to Rule 38.2(b), by this Authority date of mailing of this international search repo | | | | |
| | The figure of the drawings to be publis | | 1 | | | |
| | as suggested by the applic | • | None of the figures. | | | |
| Į | X because the applicant faile | | | | | |
| | because this figure better of | characterizes the invention. | | | | |
| | | | | | | |

rnational Application No PCT/FI 00/00690

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21G1/00 D21F5/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 D21G D21F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Х DATABASE WPI 1,3-5,7, Section Ch, Week 199403 Derwent Publications Ltd., London, GB; Class A14, AN 1994-023408 XP002901429 & JP 05 331793 A (OJI PAPER CO), 14 December 1993 (1993-12-14) abstract Y 2,6 Х US 4 016 030 A (SOBOTA JOHN T) 1,3-5,7, 5 April 1977 (1977-04-05) the whole document Υ US 5 163 364 A (DAHL HANS ET AL) 2,6 17 November 1992 (1992-11-17) column 1, line 53 - line 57 -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

21 November 2000

Authorized officer

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Helena Hemphala

2

1 6. 03. 2001

PCT/FI 00/00690

| C.(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
|------------|-------------------------------------------------------------------------------------------------------------------|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | DE 38 15 446 A (KUESTERS EDUARD MASCHF) 16 November 1989 (1989-11-16) column 1, line 32 - line 38; figure 5 | 1-8 |
| A | EP 0 719 891 A (VALMET CORP) 3 July 1996 (1996-07-03) column 1, line 10 - line 14 | 1-8 |
| | | · |
| | | |
| | | |
| | | |
| | | |

2

PCT/FI 00/00690

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date | |
|-------------------------------------------|---|---------------------|----------------------------------------------------------------|------------------------------------------------------|--|
| JP 5331793 | Α | 14-12-1993 | NONE | | |
| US 4016030 | Α | 05-04-1977 | NONE | | |
| US 5163364 | A | 17-11-1992 | AT 76134 T DE 3920204 A EP 0370185 A | 15-05-1992 10-05-1990 30-05-1990 | |
| DE 3815446 | A | 16-11-1989 | FI 892163 A | 07-11-1989 | |
| EP 0719891 | Α | 03-07-1996 | US 5524532 A CA 2164996 A FI 956102 A,B, JP 8246379 A | 11-06-1996 29-06-1996 29-06-1996 24-09-1996 | |



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant | 's or ac | gent's file reference | T | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|----------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| HL/FI991802 | | FOR FURTHER A | CTION | | ation of Transmittal of International Examination Report (Form PCT/IPEA/416 | 5) | |
| International application No. | | International filing date | (day/month | /year) | Priority date (day/month/year) | | |
| PCT/FI00/00690 | | 14/08/2000 | | | 24/08/1999 | | |
| Internatio D21H19 | | ent Classification (IPC) or na | tional classification and IF | PC . | | | |
| Applicant VALME | | RPORATION et al. | | | | | |
| | | | nation report has been | propored | hu thio Into | | |
| This international preliminary examination report has been prepared by this International Preliminary Examining Authoriand is transmitted to the applicant according to Article 36. | | | | | | ority | |
| 2. This | 2. This REPORT consists of a total of 5 sheets, including this cover sheet. | | | | | | |
| | This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). | | | | | | |
| These annexes consist of a total of 8 sheets. | | | | | | | |
| 3. This | report | contains indications relat | ing to the following ite | ms: | | | |
| 1 | \boxtimes | Basis of the report | | | | | |
| 11 | | Priority | | | | | |
| Ш | | Non-establishment of op | inion with regard to no | ovelty, inve | entive step a | nd industrial applicability | |
| IV | | Lack of unity of invention | า | | • | 1,1 | |
| V | - | | | | | | |
| VI | | Certain documents cited | t | | | | |
| VII | × | Certain defects in the int | ernational application | | | | |
| VIII | | Certain observations on | the international applic | cation | | | · |
| Date of submission of the demand | | | Date of co | mpletion of th | is report | | |
| 21/03/2001 | | | 22.11.200 | 1 | | | |
| | Name and mailing address of the international preliminary examining authority: | | | Authorized | d officer | STATE OF PARTY | SACRES . |
| European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | | epmu d | Naeslun | d, P | and the state of t | - italian |
| | | | | Telephone | No. +49 89 2 | 399 8614 | *** |

International application No. PCT/FI00/00690

| I. | Ba | asis of the report | | | | | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------|--|--|--|--|
| 1. | . With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages: | | | | | | | |
| | 1-6 | 6 | with telefax of | 05/09/2001 | | | | |
| | Cla | aims, No.: | | | | | | |
| | 1-6 | 3 | with telefax of | 05/09/2001 | | | | |
| | Dra | awings, sheets: | | | | | | |
| | 1/1 | | as originally filed | | | | | |
| | | | | | | | | |
| 2. | With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: | | | | | | | |
| | | the language of a | translation furnished for the purp | poses of the international search (under Rule 23.1(b)). | | | | |
| the language of publication of the international application (under Rule 48.3(b)). | | | | | | | | |
| | | | | | | | | |
| 3. | With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: | | | | | | | |
| | | ☐ contained in the international application in written form. | | | | | | |
| | | ☐ filed together with the international application in computer readable form. | | | | | | |
| | | | | | | | | |
| | | | ently to this Authority in compute | | | | | |
| | | The statement that | | ten sequence listing does not go beyond the disclosure in | | | | |

☐ The statement that the information recorded in computer readable form is identical to the written sequence

4. The amendments have resulted in the cancellation of:

☐ the description, pages:
☐ the claims, Nos.:

listing has been furnished.

International application No. PCT/FI00/00690

| | | the drawings, | sheets: | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------|------------------|---------------------------------------------------------------------|--|
| 5. | 5. This report has been established as if (some of) the amendments had not been made, since they have be considered to go beyond the disclosure as filed (Rule 70.2(c)): | | | | | |
| | | (Any replacement she report.) | et contai | ning such | h amendments must be referred to under item 1 and annexed to this | |
| 6. | Add | litional observations, if | necessar | y: | | |
| V. | | soned statement und tions and explanation | | | with regard to novelty, inventive step or industrial applicability; | |
| 1. | Stat | ement | | | | |
| | Nov | elty (N) | Yes: No: | Claims Claims | | |

2. Citations and explanations see separate sheet

Industrial applicability (IA)

Inventive step (IS)

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

Yes: Claims NONE

Yes: Claims 1-6

Claims 1-6

Claims NONE

No:

No:

R Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: JP-A- 05 331793 cited as a Derwent abstract

D2: US-A-4 016 030

D3: US-A-5 163 364

D4: DE-A- 38 15 446

D5: EP-A-0 719 891

From documents D1* and D2 (see Fig. 1 with corresponding parts in the 1. application, in particular ref. signs 20 and 22) there are known methods and apparatuses for surface treatment of paper comprising glazing and drying with a Yankee followed by calendering of the web.

Independent claims 1 and 4 therefore only differ in that the calender is of the "shoe or extended-nip" type. No inventive step based on this feature could however be seen. It is well-known in the field to apply shoe or extended-nip calendering units for these type of products. See e.g. D3, claim 1 and Fig. 1. Therefore the skilled man would have incorporated such units as described in D3 in the methods and apparatuses of documents D1 (if not already disclosed) or D2.

Claims 1 and 4 hence lack an inventive step (Art. 33(3) PCT).

The attention is additionally directed to D4 (see col. 1, line 32-38; figure 5) as well as D5 (see col. 1, line 10-line 14; Figure 3, ref. sign 25) both these latter documents describe calendering of webs for the same purpose as according to the present invention. The dependent claims would only appear to relate routine measures by the skilled person in the field.

For the assessment of the present claims on the question whether they are 2.

EXAMINATION REPORT - SEPARATE SHEET

industrially applicable, no particular reasoning would appear necessary to give. The industrial applicability would appear self evident (Art. 33(4) PCT).

*) It would appear expedient that the applicant provides a full-text translation of document D1 (the original JP document) on entry of the national/regional phase such the pertinence of this document can be fully assessed.

Re Item VII

Certain defects in the international application

Documents D1-D5 should be (correctly) acknowledged in the description.